CLAIMS

I claim:

1) A method of controlling a drill/driver, the drill/driver including a rotatable output shaft arranged to mount a screwdriver and screwdriver bit and a motor for rotatably driving said rotatable output shaft, providing a means for automatic periodic momentary reversals of said rotatable output shaft.

2) A device in claim 1 which includes a fixed duration of said automatic periodic momentary reversals.

3) A device in claim 1 which includes an adjustable duration of said automatic periodic momentary reversals.

4) A device in claim 1 which includes a fixed frequency of said automatic periodic momentary reversals.

5) A device in claim 1 which includes an adjustable frequency of said automatic periodic momentary reversals.

6) A device in claim 1 which includes a relay to achieve reversal of said output shaft.

7) A device in claim 1 which includes solid-state electronics to achieve reversal of said output shaft.

8) A device in claim 1 which includes a means to automatically change duration of said automatic periodic momentary reversals whereby the duration is based partially or entirely on trigger position.

9) A device in claim 1 which includes a means to automatically change duration of said automatic periodic momentary reversals whereby the duration is based partially or entirely on said motor speed.

10) A device in claim 1 which includes a means to automatically change duration of said automatic periodic momentary reversals whereby the duration is based partially or entirely on said rotatable output shaft speed.

11) A device in claim 1 which includes a means to automatically change duration of said automatic periodic momentary reversals whereby the duration is based partially or entirely on said motor current.

12) A device in claim 1 which includes a means to automatically change frequency of said automatic periodic momentary reversals whereby the frequency is based partially or entirely on trigger position.

13) A device in claim 1 which includes a means to automatically change frequency of said automatic periodic momentary reversals whereby the frequency is based partially or entirely on said motor speed.

14) A device in claim 1 which includes a means to automatically change frequency of said automatic periodic momentary reversals whereby the frequency is based partially or entirely on said rotatable output shaft speed.

15) A device in claim 1 which includes a means to automatically change frequency of said automatic periodic momentary reversals whereby the frequency is based partially or entirely on said motor current.

16) A device in claim 1 which includes a switch to engage and disengage said automatic periodic momentary reversals function.

17) A device in claim 1 which includes a means allowing said automatic periodic momentary reversals function to be engaged only when said drill/driver is in a low speed gear.

18) A device in claim 1 which includes a processor chip to change frequency and/or duration of said automatic periodic momentary reversals.

19) A device in claim 1 which includes a means to disable an automatic control of frequency and duration of said automatic periodic momentary reversals, and enable a manual control of said automatic periodic momentary reversals.

20) A device in claim 1 which includes a mechanical device to provide means of said automatic periodic momentary reversals.

21) A method of controlling a drill/driver, the drill/driver including a rotatable output shaft arranged to mount a screwdriver and screwdriver bit and a motor for rotatably driving said rotatable output shaft, providing a means for automatic periodic momentary disengagement of said rotatable output shaft.

22) A device in claim 21 which uses mechanical means for providing said automatic periodic disengagement of said rotatable output shaft.

23) A device in claim 21 which uses electric means for providing said automatic periodic disengagement of said rotatable output shaft.

24) A chuck assembly for a drill/driver which provides a means for an automatic periodic momentary disengagement or reversal of an output of said chuck assembly.

25) A battery assembly for a cordless drill/driver which provides automatic periodic momentary reversals of said battery's output polarity.

26) A device in claim 1 to be used for the insertion or removal of Philips head screws, or any screw types which are prone to having the bit hop out of the screw head.

27) A device in claim 1 which includes a shock absorption device placed inline with the gear drive section.

28) A device in claim 1 which includes a means to automatically change duration and/or frequency of said automatic periodic momentary reversals based partially or entirely said output shaft vertical load.